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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/032,102	12/31/2001	Takashi Mukaihara	381TO/41670C4	6848
7.	590 04/09/2003			
CROWELL & MORING, L.L.P. Intellectual Property Group P.O. Box 14300 Washington, DC 20044-4300		EXAM	EXAMINER	
		TRAN, BINH Q		
Washington, D	C 20044-4300		ART UNIT	PAPER NUMBER
			3748	10
			DATE MAILED: 04/09/2003	· L

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/032,102	MUKAIHARA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		BINH Q. TRAN	3748			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address			
A SH THE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply opened for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ad patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) divid apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON.	timely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133).			
1)[Responsive to communication(s) filed on 21 J	lanuary 2003 .				
2a)⊠	This action is FINAL . 2b) Th	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
·	on of Claims					
•	Claim(s) 1-3,6,7 and 17-28 is/are pending in the application.					
	4a) Of the above claim(s) <u>1-3</u> is/are withdrawn from consideration.					
· <u></u>	5) Claim(s) is/are allowed.					
·	6)⊠ Claim(s) <u>17-28</u> is/are rejected.					
·	Claim(s) <u>6-7</u> is/are objected to.	t				
•	Claim(s) _ are subject to restriction and/or elect on Papers	tion requirement.				
	The specification is objected to by the Examine	•				
	The drawing(s) filed on is/are: a)☐ accept		aminer			
.0/	Applicant may not request that any objection to the					
11) 🔲 :	The proposed drawing correction filed on	is: a) ☐ approved b) ☐ disappi	• •			
,	If approved, corrected drawings are required in rep	oly to this Office action.	•			
12) The oath or declaration is objected to by the Examiner.						
Priority ι	ınder 35 U.S.C. §§ 119 and 120					
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)[☑ All b)☐ Some * c)☐ None of:					
·	1. Certified copies of the priority documents	s have been received.				
	2. Certified copies of the priority documents have been received in Application No. <u>08/233,398</u> .					
* S	Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language pro	visional application has been re	ceived.			
Attachmen	· ·	. ,				
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) 7	5) Notice of Information	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)			

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DETAILED ACTION

This office action is in response to the amendment filed January 21, 2003.

Response To Election/Restriction

Applicant's election without traverse of Group III set of claims containing Claims 4-16 in Paper No. 4 is acknowledged.

Claims 1-3 withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected inventions.

This application contains claims 1-3 drawn to an invention nonelected without traverse in Paper No. 4. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP, 821.01.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such

treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 17-28 are rejected under 35 U.S.C. 102 (e) as being anticipated by Kurihara et al.

(Kurihara) (Patent Number 5,341,642).

Regarding claims 17, 20, 23, and 26, Kurihara discloses a diagnostic system (11) for diagnosing a deterioration state of a catalyst in an engine (1), comprising:

a memory (RAM) for storing a preset criterion value and a predetermined range for a

state variable of the engine that correlates with a physical quantity affecting a catalytic action of

the catalyst; and a processor (11) connected to the memory (RAM) for obtaining an index value

indicative of a conversion efficiency of the catalyst (See Figs. 1-4; col. 6, lines 30-67; col. 7,

lines 1-25); receiving a value of the state variable of the engine; suspending a determination of

the deterioration state of the catalyst if the value of the state variable is outside the predetermined

range; and determining the deterioration state of the catalyst by comparing the index value with

the preset criterion value if the value of the state variable is within the predetermined range (See

col. 7, lines 25-67; col. 8, lines 1-67; col. 9, lines 1-20).

Regarding claims 18, 21, 24, and 27, Kurihara further discloses that the physical quantity is

a temperature of the catalyst (See col. 2, lines 57-64) and the state variable is selected from the

group consisting of a quantity of intake air, a quantity of fuel injection, and a revolutions-per-

minute of the engine (See col. 1, lines 64-67; col. 2, lines 1-24; col. 5, lines 42-67; col. 6, lines 1-

30).

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Regarding claims 19, 22, 25, and 28, Kurihara further discloses that the preset criterion

value represents a limit of deterioration calling for replacement of the catalyst (See Figs. 4-6; col.

7, lines 25-67; col. 8, lines 1-67; col. 9, lines 1-20).

Allowable Subject Matter

Claims 6-7 are allowed.

Since allowable subject matter has been indicated, applicant is encouraged to submit formal

drawings in response to this Office action. The early submission of formal drawings will permit the

Office to review the drawings for acceptability and to resolve any informalities remaining therein

before the application is passed to issue. This will avoid possible delays in the issue process.

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure and consists of four patents:

Mukaihira et al. (Patent Number 5,400,592), Takizawa et al. (Patent Number 5,381,657),

Ogawa et al. (Patent Number 5,357,754), and Sato et al. (Patent Number 5,396,766) all discloses an

exhaust gas purification for use with an internal combustion engine.

Response to Arguments

Applicant's arguments filed April 21, 2003 have been fully considered but they are not

completely persuasive. Claims 6-7, and 17-28 are pending.

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Applicant's arguments with respect to claims 6-7, 17-28 have been considered but are moot in view of the new ground(s) of rejection as discussed above.

Applicant's amendment (Claims 6-7, 17-28) necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL See MPEP. 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for response to this final action is set to expire THREE MONTHS from the date of this action. In the event a first response is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event will the statutory period for response expire later than SIX MONTHS from the date of this final action.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Binh Tran whose telephone number is (703) 305-0245. The

examiner can normally be reached on Monday-Friday from 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Thomas E. Denion, can be reach on (703) 308-2623. The fax phone number for this group is (703)

746-4561.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (703) 308-0861.

BT

April 04, 2003

Binh Tran

Patent Examiner

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